

# Lotrène® FD0474

LOW DENSITY POLYETHYLENE

## DESCRIPTION

Lotrène® F0474 is mainly recommended for the extrusion of very high clarity blown and cast films. It contains high slip and anti block additives.

## PROPERTIES

The molecular structure of Lotrène® F0474 provides excellent clarity, high gloss and low haze films. This structure also leads to excellent processability.

POLYMER PROPERTIES	VALUE	UNIT	TEST METHOD
Melt Flow Index	4.0	g/10 min.	ASTM D-1238
Density @ 23 °C	0.923	g/cm <sup>3</sup>	ASTM D-1505
Crystalline Melting Point	112	°C	ASTM E-794
Vicat Softening Point	93	°C	ASTM D-1525

  

FILM PROPERTIES	VALUE	UNIT	TEST METHOD
Tensile Strength @ Yield MD/TD	15/11	MPa	ASTM D-882
Tensile Strength @ Break MD/TD	18/15	MPa	ASTM D-882
Elongation @ Break MD/TD	400/550	%	ASTM D-882
Impact Strength, F 50	100	G	ASTM D-1709
Coefficient of Friction	0.12	-	ASTM D-1894
Haze	6.0	%	ASTM D-1003
Gloss (@ 45 °)	80	GU	ASTM D-2457
Clarity	90	%	ASTM D-1746

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(The above properties are measured on a blown film of 50 µ, @ 2.5 BUR)



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**Note:** The values given in this technical data sheet are the results of tests carried out in accordance with standard test procedures. They are given as indication to enable customers to make the best use of our products but must be considered as average values provided without implying any undertaking on our part.

### PROCESSING

Lotrène® F0474 can be easily processed on all types of extruders designed for polyethylene.

The melt temperature is suggested to be in the range of 140-150 °C.

The best and balanced properties of the blown film are achieved at blow up ratios between 2.5:1 and 3.5:1.

To avoid blocking and shrinkage on the reel, the temperature at the nip rolls and take-off should be kept as close as possible to the ambient temperature.

The recommended thickness range is from 15 µm 100 µm.

### APPLICATIONS

- High-clarity film for packaging
- Luxury goods
- Flowers
- Clothing
- Frozen food
- Laundry film
- Display film

### SAFETY AND STORAGE

Under normal conditions Lotrène® F0474 does not present a toxic hazard through skin contact or inhalation. During processing, contact with molten polymer and inhalation of volatilized fumes should be avoided.

Lotrène® F0474 complies with food grade regulations FDA, 21 FR chapter 177-1520 'Olefin Polymers'. Items made from this grade do not transmit tests nor odor to the material in contact with.

Lotrène® F0474 is inflammable and combustible (category 3) according to ISO R 1210.

Lotrène® F0474 is supplied in plastic bags of 25 kg (net weight) each. The bags are stacked and shrink wrapped on pallets of 1500 kg each (net weight). The product is forwarded either by trucks or in 20-foot sea containers.

Lotrène® F0474 should not be stored for more than three months nor be exposed to direct sunlight and/or heating during storage since this may adversely affect the properties of the product.

